AMCGRAW-HILL PUBLICATION WEEK 1949



Some commercial airports that have recently installed or ordered L-M high intensity runway lighting

BIRMINGHAM • BOSTON • CHATTANOOGA

CHICAGO • JACKSON • KNOXVILLE • MILWAUKEE

MINNEAPOLIS-ST. PAUL - NASHVILLE

NEW YORK International • NEW YORK (LoGuardia)

PHILADELPHIA International • PHOENIX

RALEIGH-DURHAM - ST. LOUIS - SALT LAKE CITY
WORCESTER - AMSTERDAM - BRUSSELS - CANTON

HANKOW . PANAMA CITY . PARIS (Orly)

SHANGHAL . SHANNON

LINE MATERIAL lights more runways

than do all other high intensity runway lighting systems combined

As the pioneer in High Intensity Runway Lighting, L-M is the recognized leader, both in the quality of its equipment and in the number of major airports using this equipment. The units provide the very high intensity of 180,000 beam candlepower without glare to the pilot.

Not so spectacular but equally important is L-M Medium Intensity lighting for smaller airports and secondary runways and taxiways at large ports. These units may be purchased as part of L-M's complete airport lighting "puckage." This lighting is highly efficient, CAA approved, with complete son trol equipment, and costs as little as \$1 per foot of runway.

Also available: large and small rotating beacons, obstruction lights, control panels, and auxiliary equipment. Write for literature and full information on L-M's Airport Lighting Engineering. Ask the L-M Field Engineer or write Line Material, Airport Lighting Division, East Stroudsburg, Pennsylvania.



L-M Medium Intensity Runway Light, for small airparts and secandary runways and taxiways of large airparts. Part of L-M's camplete line of Airpart Lighting equip-

LINE MATERIAL Airport Lightin



J-34 TURBOJETS

power the Chance Vought XF7U-1 "Cutlass"

in the U. S. Navy's current-based scaleing force. of Westinghouse-powered sirplines for the Shiphound assertion, but absentes, and creensanst speeds demand urmost performance and depend childre from its power plant. Wevinghouse as proud that at engages were chosen by Change Yought for the "Custon" It is





One of aviation's oldest fire veterans!

Here's an engine that has been not on fee mere shop 600 times It's one of a vale of B.56 power please here at the Kuble proper grounds - a fees are been and die under conditions This fire veterior is the rese engine of a - and no're ready to pass on what we're torplets presupernent. The front course is the "dipotence" - its spirming blodes drive back through the year narelle a ractor wire! have a secrific problem, we'll be shall to that quirkly face fire into a roughty blane. Guerra et with you,

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Watter Kidde & Company, Inc. . 418 Main Street, Belleville 9, N. J. AVIATION WHEN June 6 1985



Hendline News



ANNOUNCING WORLD'S LARGEST PRODUCTION PROPELLER

"Custom-Built" Curtiss-Wright

Editorial 58

Victory Clandiles - Blood Steep

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FOR THE B-36

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Southwest Airmotive Company **Builds Business**

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NEWS SIDELIGHTS

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ACCIESORIES CORPORATION

AVIATION CALENDAR

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Saga 2-9-1203 Anthony Aly Easts Corp.

THE RESIDENCE STREET JAMES L ABAMS & CO. W N WEIGHT + DALLAS, TREAS



GREATEST SUPPLIER DOUGLAS

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quality standards Over 50% of all north

For faster orrests ... coper matalliation ... horn 'exfring with scenar Douglas spare ports in the proper servicing of all Decades accordi-DOUGLAS! SCHOOL SECRET CHIPARY, INC. MATE MODEL, CAUTIONS



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AVIATION WEEK, Ame 6, 1949



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MICRO STITCH unto, developed to Artefica engineers are spected to make see of MECRO SETECH Throm-buy



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NEWS DIGEST

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FOREIGN

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INDUSTRY OBSERVER

► National Adversey Committee for Aeronautics has developed a new severally declarate for sufficient word toward data of back Mark ways. bers to low describes o critical error on the high speed, but allebade requirements of the next pracritics of malitary aircraft. NACA uses nitrogen is a supersone ward trend cocked by an electrical discharge to produce on offendow that can be abelianceded. This technique and Schlieses, photographs at high speaks and high dessities. Her was respected by Joseph Circles of Concrete of Colderes and Academic

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June 6, 1949



B-36 Procurement Investigation Slated

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AVERTON WEEK from 5 1660

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VIKING READY FOR FIRING AND LAUNCHING Value is covered from morable gaster reclect in sendy for fight, after fixed boundloon, with notice storing should not

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Senate Passes Tydings Bill

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HEADLINE NEWS

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BEADLINE NEWS

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Philadelphia Regatta Draws Many Entries

A new formula far plotting efficiency Country Club, Wongs Field, Applier Boothapt Beliases Cramin, 127 mph, 38 mh, I W Smith Centu-120160, 115 mph, 56 mh, Full Methell Ecoupe, 185 mph, 49 mh.

AVIATION WEEK, June 6, 1989.

ANDB To Test Omni-Range

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HEADLINE NEWS

FINANCIAL

Court Averts Mail Award Chaos

TWA and Capital turned down on action to force CAB to revise past permanent rate determinations.

Receiving little attention but of ut- mented its final action leading in the screen ections of the U. S. Supreme do not have the authority to fix a new Court unhables Carl Accometes rate for an opposition distance a network from June 1, 1942 to Jun. 17, 1947 * Court Action-After submarker the nacopus nearedwal steps helps: CAR at The Borel was asheld in these asbeer and the curvey excelved operated to Dec 1, 1935, and not 15 yearful

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Unusually resistant TO LEAD FOULING

Service tests, as well as engine builders' tests, show the AC 181 Spark Plus to resist lead fording better than any other play ever built. Furthermore, the one-more cremic insulator-of national CORALOX-gives AC-181 discourses the dist true between the shalding barrel and core insulstons Currently approved by Pear & Whitney and C.A.A. for the 3-1690

is now an areath expended production for many of the coursey's leading AS APPARE PERSONNELS . SERVERAL MATERIA COMPONENTIAN . PLANT A. MILLIAMS

OTHER AC AIRCRAFT PRODUCTS # Plan he let melen he ST AC AIRCRAFT SAIST I ASSETS ple performed a the manche.





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AN and Floreless Fittings . Hudepulls Valves Out in our of managed representation THE PARKER APPLIANCE COMPANY

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ENGINEERING



New Research Methods Revealed

NACA tells how better techniques, more efficient use of facilities have brought great progress in its transonic speed investigations.

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Combined Load Testing Machine-

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GREAT FOR LIGHT PLANES! AVIATION A DFTERGENT-DISPERSANT OIL! Proved by 10 Years' Performance in Flight Operations!

THE USER PLANT engines in clean condition for fige. performance-with East Aviation Oil IT's MADE FROM high quality base stock . . . and It's a deterpent dispersent type syletion lubrocent that performs a remarkable elearing action as it labor-

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New Fokker Trainer In Production

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By Robert McLoren

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Private Capital in PUBLIC SERVICE

In the United States are transportation is operated as a prevate enterprise. In
other countries in endoughed by the government. The United States continues to
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other contenty has a comparable sendant of sixthes service. We helieve it is to the
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II, however, private categories in o retain the spirit and instative which analyse for progress, it must be contraced that its service is useful and this results are largely dependence on its own effort. A result of one effort it: In three years, 1996, 1991 and 1988, American Airlines, Inc., increased 360,000,000 in seco. airlands and confidence.

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The provided homeon for the aircraft factories and employment for their men,
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It provided a new 300 critican-bear face for the oir regain of the United States, assuring time-series, dependability and solery-more conferr for the passenger and structure speed for all forms of tower, respectation and communication.

In the name three years, Assortions Airlines, Inc. invested 56,000,000 to new and

more efficient shop buildings and equipment:

This has provided jobs for trained polarisists and modern mathingry for their use.

It, thereby, provides an aspectate reserve of slobed personnel available for national are power.

It has revealed approximate approximately which will be reflected in contribution to profit.

able operation and, ultimately to reduction in charges for air transportation.

It has provided maintenance and overhead families, strategically located, which consists a reserve for antiqual six power.

Every dollar of the \$65,000,000 came from private investors. Note of it was borrowed from any agency of the government nor was any of it government subsidy



AMERICAN AIRLINES INC.



What Air Mail Subsidy?

A common misconception is that all of the airfuses are supported by government submity. Let's discuss this:

American Airlines is paid for the transportation of mail at rures enablished by

order of the Civil Accounties Board. The rate at which American is being paid was certified by the Board to be "fair and enameable in terms of quality of service and was not designed to meet the financial needs of the curren." That rate includes no subsisty.

The United States Post Office Department is American Adritices' largest customer in dollar volume, and we continue to give it the best of service.

It should be remembered also that we transport passengers, express and freight, In 1948, one evenue from those sources was \$84,615,600. Our retal revenue for the transportation of small was 46.769,000.

Of the total revenue of American Airlines in 1948 more than ninety-four per cent (94%) came from the transportation of passengers, express and freight. Less than six per cent (65%) same from the transportation of mail.

II, during 1948, the total revenues received for the transportation of mail, 54,769,006, had been the only funds available to meet our expenses we would have been able to operate only 19 days during the war. We did operate 765 days

American Arrians is a business instructor, We take pride in the fact that we have been able so make substantial progress and improvement, with private capital angular progress, in the publicly arrives.



AMERICAN AIRLINES



Meet your Problems of Space. Production or Storage by using TRUSCON Standardized

Steel Buildings. YOU NEED IT WHEN?

Prompt delivery of TRUSCON Standardized Steel Buildings within certain size limitations

is now possible. YOU NEED IT WHERE?

These standard-unit, prefabricated structures can be shipped anywhere, are easily and speedily exected and dismontled, allowing extreme flexibility.



TRUSCON STEEL COMPANY





Chart Eases Selection of Resistance Gage Grash method affords rapid choice of strain unit and

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NEW AVIATION PRODUCTS



Plane Ground-Power Line of autouft ground power units rs offered by Industrial Electronics A.



All-Purpose Tool Officed by Smilles Tool Company, 1548 W. Peo Blod, Los Acquies,





'Tom Thumb' Motor motor made by Less, Inc., 110 Japan







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New Finnish Lightplane

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Latest Air Force Bid Awards

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MORE POWER FOR LUNCOMBE. New model at the Engraphs four-place Shorter Sedan is powered with a Continental 185 has engine berong a new Hestard automate: two-position perceller, and prioritarand at \$5455 fluxer Cerbed, Tex. The additional 20 by. (Sauser powerplant was 165 by a palls the suplese off the ground of restored of full groun unisht of 2280 lb. in less than 900 ft , the manufacturer states. Initial rate of clicals with new rapise is reported better three 1200 from timely-street front arms all-mosted could Lococube is shorting new plane's soles appeal to potential six star youts short leading characteristics capable of regged operations. Accognised

ket available for \$570 tob Garland, or feetnry hutellidica for \$670 FNDURANCE COSTS-Cost of the new world endorsees second after flight's end at Fullesten, Geld amounted to about \$5,000 for a net

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5000 STALL INDICATORS-With over 5000 rate fight stell weeking this device, the matterfacturer reports. This is as solde of the fact than CAR accident statistics show that there are normally a total of 25 total stall Plant, and over-covered Laurenther. It is also standard on Germania and

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Where is the Steam was world as absolute promised us by the publicious during and after the war? We were told then that postwar America would live \$9% better than it had before. Why his that posmire fixed out? Why are men today discouraged and frestrated?

in an hour now than he did in 1941. We are petting more total production in our country - but only because we have more people working. Not because each one of us is producing more. Amerroads-with less of each worker's time and offert - has been stronged for eacht long years. Progress has been blocked because in some cases workers have not been willing to work as

unions matriet the use of laboratories muchloss and methods. In some places obsolets heal-free codes and ophrances prevent advances. In citi other cases process has been blocked by cellu-But the biggest block to progress is the fact that

our industry in the United States has been up and equipment that they need. Increasing productivity ... that is, each one of us turning out more in each hour of work-is the key to higher living standards. Productivity depends directly upon the kind of tools workers use. Hu took, more than surface else, determine how much a worker can turn out, and what his pay-Look what happened in our country in the forty years from 1900 to 1940. Productivity of the United States more than doubled, It doubled

So .- Americans' bising standard may almost 50% solefe the georges seed work you decayant from 61 to 43 hours. Industry did continue to raise its output per did at because with accompleyment reducered. companies used only their most efficient compa

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can expert. Wherever you turn, industry has dramatic new years of doing things. Doing exysten-The cody sensible, the only safe national policy by the ton, steel makers are moreasing production reaching tools are doing three times the work multiply a morer's daily curpur 10 tensor. Detail locomotives do the work of three steam loco-

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AIR TRANSPORT

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AVIATION WEEK, June 6, 2949

AVIATION WEEK, June 6, 1949

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EDITORIAL

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BOEING B-50 CIRCLES GLOBE IN 94 HOURS NON-STOP

Fort Worth, Texas-For the first time in history the U. S. Air Force has circled the globe non-stop-23,450 miles in 94 hours. The Lucky Lady, a Boeing B-50 medium bomber, accomplished this amazing feat. refueling four times on the

The B-50 is another ship for which Foote Bros. is producing actuators. The giant jacks on the landing gear, measuring 5 ft. long, are manufactured in Foote Bros. large plants. And in the Pratt & Whitney Major engines "A-O" Gears aided in setting this new record.



FOR GEARS AND ACTUATORS Recent records set by America's | transmit heavy loads, and their

newest airplanes dramatize the advanced engineering that has played such an important part in their performance. Manufacturers of these news-

making aircraft look to Foote Bros. to provide precision gears, actuators and power units. Foote Bros. "A-Q" (Aircraft Quality) Gears found important

applications in the aircraft field because of their unique qualities of extreme light weight and high efficiency. Despite thin sections, they were able to precision made possible operation at high speeds. "A-O" Gears are today used on Pratt and Whitney engines, in turbo jet engines and in the giant 19 ft. Curtiss Wright Propellers used on the B-36 as well as on

numerous other applications. Aircraft companies were quick to realize the many applications of Foote Bros. "A-Q" Gears in the development of power units and actuators for a multitude of purposes in aircraft control and operation.



BOFING XB-47 SFTS NEW SPEED RECORD

Moses Lake Field, Washington -On February 8th the Air Materiel Command's new bomber, the Boeing XB-47 Stratojet, streaked through the stratosphere at 607.2 miles per hour in the fastest transcontinental flight ever made. Rated as "light" despite its 125,000 lbs., the XB-47 flew 2.289 miles from Moses Lake. Washington Airport to Andrews Field, Maryland, in 3 hours and 46 minutes. Foote Bros. produces the landing gear actuators, the slat wing flap system for the B-47

PIASECKI X H J P-1 PROVES WORLD'S FASTEST HELICOPTER

Morton, Pa. - The recently developed Piasecki XHIP-1 unofficially set a world's record of 131 miles per hour. surpassing the official world's record held by the British Fairey "Gyrodyne."

In the new Piasecki, tandem counter-rotating rotors counteract torque with no loss of power. The two main rotor drives for the Piasecki consists of a planetary transmission produced by Foote Bros.

FLYING WING PROVES ITS PRACTICALITY

Muroc Field, Calif.-On Feb. 10, the famous Northrop Flying Wing* flew non-stop from Muroc Field, California, to Washington, D. C. Its elapsed time was 4 hours and 25 minutes.

The Flying Wing* represents the final realization of North-rop engineers to produce a bomber without the conventional fuselage. Rotation about the fore and aft and lateral axes is controlled by a unique elevon system which combines the action of elevators and ailerons. The vital control devices for the elevon system are produced by Foote Bros. These controls occupy a minimum space envelope and are extremely light in weight consistent with reli-

able operation.

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